



TENNESSEE

Nursing Home Trends

MAY 2001

TENNESSEE DEPARTMENT OF HEALTH



Data used to compile Tennessee Nursing Home Trends was

obtained from summary tabulations of the **Joint Annual Report of Nursing Homes**. Individual reports are completed each year by the licensed nursing homes in Tennessee and returned to the Office of Health Statistics and Research for compilation and review. While the compiled information of all licensed nursing homes is quite detailed, data summarized for this report focuses on trends and changes in Tennessee nursing homes for the period 1990-1999.

As Tennessee's older adult population increases, the additional need for nursing home care has become an important issue. In 1980, 11.3 percent of Tennessee's population was 65 years and older, and by 1990, this proportion had increased to 12.7 percent. In 1999, 13.1 percent of Tennessee's population was estimated to be 65 and older.

Submitted reports indicate that the total number of Tennessee nursing homes steadily increased from 1990 to 1998, but in 1999, the total declined 1.4

percent. The 1999 number of non-profit nursing homes (82) decreased 4.7 percent from the 1998 total of 86, while the number of for profit nursing homes remained constant over the period. Government nursing homes decreased 2.7 percent from 37 to 36. The number of corporation/association non-profit nursing homes decreased from 71 to 68, but the number of for profit corporation/association nursing homes slightly increased from 1998 to 1999.

NUMBER OF NURSING HOMES BY TYPE OF OWNERSHIP

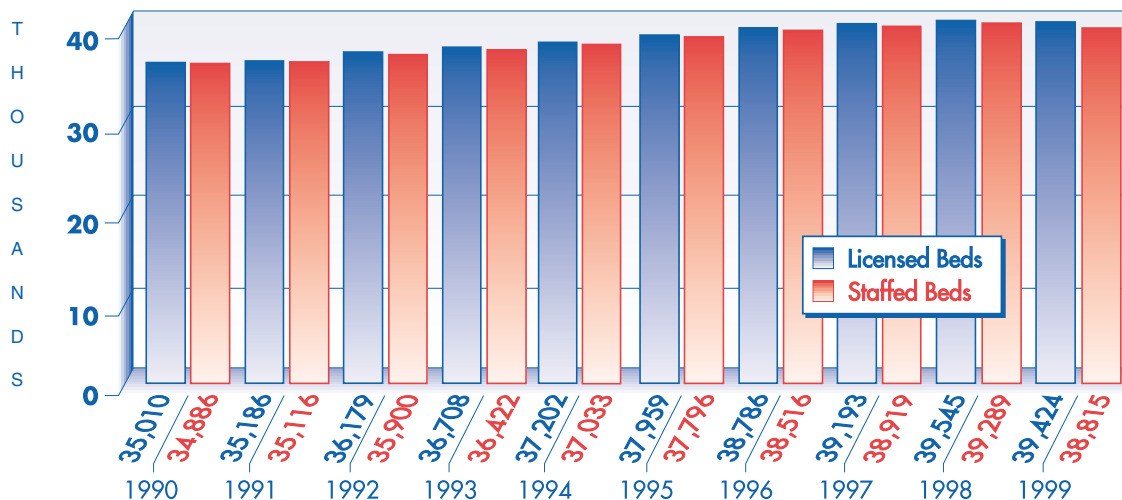
Tennessee, 1990-1999

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
TOTAL	302	304	313	319	327*	336	347	356*	362	357
Non-profit	58	60	61	62	69	76	82	81	86	82
Church related	19	18	15	13	11	10	14	10	12	11
Corporation/Association	39	42	46	48	58	66	68	71	71	68
Other Non-profit	-	-	-	1	-	-	-	-	3	3
For Profit	215	216	222	227	229	230	234	240	239	239
Individual	4	4	4	5	4	2	2	3	1	1
Partnership	66	63	66	64	59	49	47	48	38	37
Corporation/Association	145	149	152	158	166	179	185	189	200	201
Government	29	28	30	30	27	30	31	34	37	36
State	-	1	1	1	-	1	-	-	-	-
County	25	22	24	24	22	24	25	28	29	32
City	2	2	2	2	3	3	3	3	3	1
City-County	1	2	1	1	1	2	2	1	1	1
Hospital District	-	-	1	1	1	-	-	1	1	1
Veterans Administration	1	1	1	1	-	-	1	1	3	1

*Total includes nursing homes with type of ownership not reported.

Number of Licensed and Staffed Beds

Tennessee Nursing Homes, 1990-1999



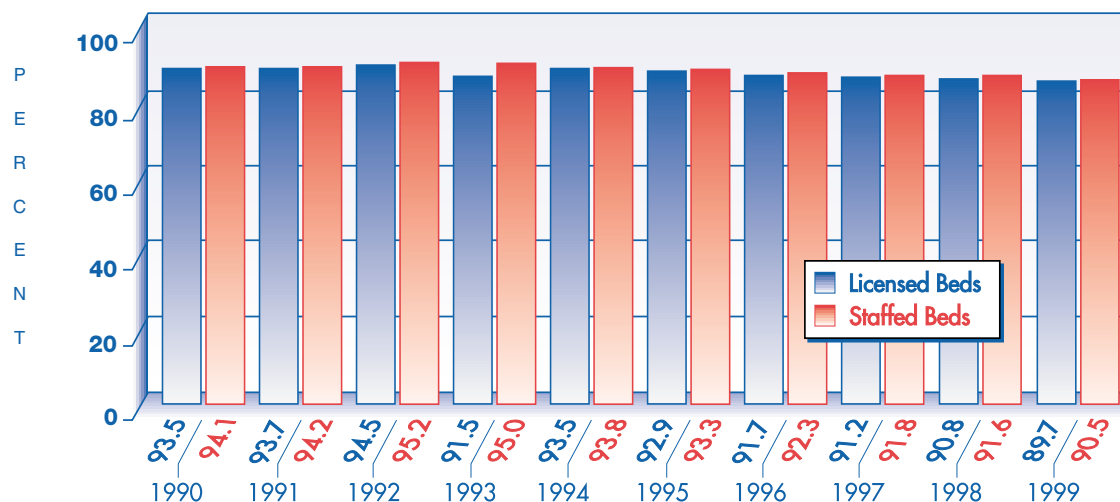
Licensed beds - The maximum number of beds authorized by the state licensing agency or regulated by a federal agency.

Staffed beds - The total number of beds set up, staffed, and in use at the end of the reporting period. This number should be less than or equal to the number of licensed beds.

The reported number of both licensed and staffed beds for Tennessee nursing homes increased over the period 1990 to 1998. In 1999, both the number of licensed and staffed beds decreased from the previous year. Licensed beds decreased 0.3 percent, while staffed bed decreased 1.2 percent from 1998.

Percent Occupancy For Licensed and Staffed Beds

Tennessee Nursing Homes, 1990-1999



Percent occupancy is computed as the number of patient days of care divided by the number of bed days open for licensed or staffed beds, multiplied by 100. For the period 1990 through 1992, the percent occupancy for both licensed and staffed beds increased. The percentages then fluctuated from 1993 through 1995, and decreased for both licensed and staffed beds through 1999 when the percent occupancy for Tennessee nursing homes based on licensed beds and staffed beds dropped to 89.7 and 90.5 respectively.

Admissions are the number of patients admitted to a facility during the reporting period, and discharges are the number of patients discharged plus all deaths. Nursing home admissions and discharges increased gradually from 1990 to 1992, but from 1993 to 1998, admissions increased 77.8 percent and discharges increased 81.3 percent. Nursing home admissions decreased from 60,158 in 1998 to 58,836 in 1999, while the reported number of discharges decreased from 60,330 to 59,181 for the same period. Discharge patient days are the total

NURSING HOME ADMISSIONS, DISCHARGES AND DISCHARGE PATIENT DAYS

Tennessee, 1990-1999

Year	Admissions	Discharges Including Deaths	Discharge Patient Days
1999	58,836	59,181	11,699,782
1998	60,158	60,330	11,544,940
1997	58,380	58,386	12,091,990
1996	51,109	50,554	11,989,394
1995	45,464	45,073	12,024,654
1994	39,173	38,530	11,258,115
1993	33,830	33,273	11,450,663
1992	30,742	29,687	10,369,705
1991	29,154	27,905	9,923,748
1990	29,488	27,400	9,163,782

AVERAGE DAILY CENSUS, AVERAGE LENGTH OF STAY RATE OF PATIENT TURNOVER

Tennessee Nursing Homes, 1990-1999

Year	Average Daily Census	Average Length of Stay	Rate of Patient Turnover
1999	35,162	204	1.53
1998	35,593	195	1.54
1997	35,199	211	1.50
1996	34,904	245	1.33
1995	34,595	277	1.20
1994	34,254	296	1.06
1993	34,075	346	0.93
1992	33,599	351	0.86
1991	32,707	364	0.83
1990	31,797	363	0.85

number of days of care rendered to patients discharged during the reporting period (including days of care rendered prior to the beginning of the reporting period). The reported number of discharge patient days increased 1.3 percent from 1998 to 1999.

The average daily census and the rate of patient turnover decreased from 1998 to 1999, while the average length of stay increased. The average daily census is calculated as the number of patient days of care divided by the number of days

in the calendar year. The average length of stay is calculated as the number of discharge patient days divided by the number of discharges. The rate of patient turnover is the number of admissions divided by the number of staffed beds.

Patient census data is reported for December 31 of each indicated year. The number of nursing home patients is given by five-year age group, as well as by gender.

NUMBER OF NURSING HOME PATIENTS BY GENDER AND AGE

Tennessee, 1990-1999

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	32,718	33,037	34,809	34,905	34,879	34,632	35,532	35,736	36,012	35,571
Male	8,630	8,847	9,334	9,127	8,935	8,849	9,137	9,395	9,597	9,383
Female	24,088	24,190	25,475	25,778	25,944	25,783	26,395	26,341	26,415	26,188
Age Group										
Under 60	1,434	1,488	1,606	1,608	1,610	1,673	1,862	1,995	2,105	2,173
60-64	932	912	956	995	1,026	995	1,092	1,064	1,100	1,202
65-69	1,785	1,731	1,822	1,774	1,677	1,744	1,767	1,767	1,854	1,813
70-74	3,190	3,144	3,255	3,382	3,299	3,273	3,170	3,162	3,252	3,046
75-79	5,111	5,062	5,164	4,989	5,076	5,104	5,246	5,334	5,297	5,140
80-84	7,023	7,165	7,600	7,428	7,310	7,307	7,469	7,071	6,964	6,840
85-89	7,047	7,147	7,596	7,495	7,618	7,641	7,807	8,162	8,098	7,512
90-94	3,974	4,150	4,505	4,788	4,815	4,812	4,942	4,846	5,174	5,195
95-99	1,460	1,458	1,498	1,614	1,634	1,746	1,763	1,747	1,845	1,848
100+	310	314	320	321	328	337	335	354	323	351

Totals may include patients with age unknown.

The number of admissions to Tennessee nursing homes increased 99.5 percent while the number of discharges increased 116.0 percent during the time period of 1990-1999. This is much greater than what any increase in elderly population would indicate. At the same time, average length of stay has dropped by 43.8 percent and rate of patient turnover has increased by 80.0 percent, while average daily census only increased by 10.0 percent. This indicates that nursing home services in Tennessee are now being used by more persons for shorter episodes of care.

Many persons are now entering nursing homes for convalescence, then are leaving

for home or other settings. This can be attributed to the fact that more hospitals are discharging patients, especially the elderly patients, to the less medically intense nursing home setting for a longer recuperation period after initial acute care treatment. In fact, many hospitals have converted excess bed capacity into skilled nursing unit beds licensed as nursing home beds. The situation is further reflected in hospital statistics which have shown a decrease in utilization over this same time frame.

Percent occupancy for Tennessee nursing homes remained high over the 1990-1999 time period, fluctuating between 89 to 95 percent. High occupancy is typical for the

nursing home industry and appears to be invariant even with other changes occurring with growth. The demand for nursing home services has kept pace with increased resources provided.

The Department of Health will continue to collect nursing home data through its Joint Annual Report of Nursing Home annual survey. This data and those from other surveys will be monitored as changes in the delivery of health care in Tennessee evolve. More detailed utilization statistics and data on individual nursing homes are publicly available through the office of Health Statistics and Research or visit our website at the address indicated below.

POPULATION AGED 65 AND OLDER

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
618,818	630,117	640,943	652,546	664,730	676,640	687,895	696,511	706,669	715,656

NOTE: The population estimates for Tennessee used to calculate the rates in this report were based on estimates prepared from the 1990 census by the Department of Sociology at the University of Tennessee in Knoxville. On June 19, 2000, population projections were revised by Health Statistics and Research. These revised projection figures were based on updated county total estimates released by the Bureau of the Census, and may result in rates that differ from those previously published.

Please visit the Health Statistics and Research and Health Information Tennessee (HIT) pages at the Tennessee Department of Health website <http://www.state.tn.us/health>

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